

L Number	Hits	Search Text	DB	Time stamp
1	3	malouf-nadia.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/04 10:42
2	8	nichols-timothy-c.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/04 10:42
3	823	voltage same dependent same calcium same channel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/04 10:43
4	4	wo adj "9504822"	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/08/04 10:43

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NEWS	4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
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NEWS EXPRESS	JULY 30		CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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=> s malouf nadia /au
L1 4 MALOUF NADIA

=> s nichols timothy c /au
L2 114 NICHOLS TIMOTHY C

=> s (voltage (a) dependent (a) calcium (a) channel) (s) nucleic (s) acid
L3 7 (VOLTAGE (A) DEPENDENT (A) CALCIUM (A) CHANNEL) (S) NUCLEIC (S)
ACID

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 7 DUP REM L3 (0 DUPLICATES REMOVED)

=> d l4 total ibib kwic

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:609820 CAPLUS
TITLE: Purified and isolated platelet calcium channel nucleic acids and polypeptides and therapeutic and screening methods using same
INVENTOR(S): Nichols, Timothy C.; Malouf, Nadia; Merricks, Elizabeth
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 201 pp., Cont.-in-part of U.S. Ser. No. 29,413.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004146851	A1	20040729	US 2003-726216	20031202
US 2002165353	A1	20021107	US 2001-29413	20011220
PRIORITY APPLN. INFO.:			US 2000-258169P	P 20001222
			US 2001-29413	A2 20011220

AB Isolated and purified platelet **voltage dependent calcium channel** (VDCC) α 1 subunit polypeptides, and **nucleic acid** molecules encoding the same. Recombinant host cells, recombinant nucleic acids, and recombinant proteins are also disclosed, along with methods of producing each. Isolated and purified antibodies to platelet VDCC α 1 subunit polypeptides, and methods of producing the same, are also disclosed. Platelet VDCC α 1 subunit polypeptides have biological activity in calcium transport. Thus, therapeutic and diagnostic methods involving

this activity are also disclosed.

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:678933 CAPLUS

DOCUMENT NUMBER: 139:208845

TITLE: Protein and cDNA and genomic sequences of a human voltage-dependent calcium channel sequence homolog, its tissue expression, SNPs, and therapeutic use

INVENTOR(S): Gan, Weiniu; Neelam, Beena

PATENT ASSIGNEE(S): Applera Corporation, USA

SOURCE: PCT Int. Appl., 479 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003070882	A2	20030828	WO 2003-US4202	20030213
WO 2003070882	A3	20031211		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2002-356757P P 20020215

IT DNA microarray technology

Drug screening

Human

Molecular cloning

Nucleic acid hybridization

(protein and cDNA and genomic sequences of a novel human

voltage-dependent calcium channel

sequence homolog, its tissue expression, SNPs, and therapeutic use thereof)

IT Primers (**nucleic acid**)

Probes (**nucleic acid**)

RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(protein and cDNA and genomic sequences of a novel human

voltage-dependent calcium channel

sequence homolog, its tissue expression, SNPs, and therapeutic use thereof)

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:615843 CAPLUS

DOCUMENT NUMBER: 137:165268

TITLE: Purified and isolated platelet calcium channel nucleic acids and polypeptides and therapeutic and screening methods using same

INVENTOR(S): Malouf, Nadia; Nichols, Timothy C.

PATENT ASSIGNEE(S): University of North Carolina - Chapel Hill, USA

SOURCE: PCT Int. Appl., 281 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002063000	A2	20020815	WO 2001-US50328	20011220
WO 2002063000	C2	20030424		
WO 2002063000	A3	20030731		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2000-258169P P 20001222

AB Isolated and purified platelet **voltage-dependent calcium channel** (VDCC), $\alpha 1$ subunit polypeptides, and **nucleic acid** mols. encoding the same are provided. RT-PCR was used to amplify, clone, and sequence flanking regions of VDCC $\alpha 1$ subunit cDNA from cultured human megakaryocytes and from fresh porcine platelets. Two different isoforms are expressed on human megakaryocytes; one exhibits sequence identity to the L-type VDCC $\alpha 1$ subunit sequence from human skeletal muscle $\alpha 1S$ and the other exhibits sequence identity to the human neuro-endocrine cells $\alpha 1D$ sequence. The platelet $\alpha 1$ subunit is localized in a tight membranous network of the open canalicular system. Recombinant host cells, recombinant nucleic acids and recombinant proteins are also disclosed, along with methods of producing each. Isolated and purified antibodies to platelet VDCC $\alpha 1$ subunit polypeptides have biol. activity in calcium transport. Thus, therapeutic and diagnostic methods involving this activity are also disclosed.

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:678427 CAPLUS

DOCUMENT NUMBER: 127:328657

TITLE: Immunohistochemical and in situ mRNA hybridization techniques to determine the distribution of ion channels in human brain: a study of neuronal voltage-dependent calcium channels

AUTHOR(S): McCormack, Alison L.; Day, Nicola C.; Craig, Peter J.; Smith, William; Beattie, Ruth E.; Volsen, Stephen G.

CORPORATE SOURCE: Lilly Research Centre Ltd., Surrey, GU20 6PH, UK

SOURCE: Brain Research Protocols (1997), 1(3), 299-306

CODEN: BRPRFP; ISSN: 1385-299X

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

IT **Nucleic acid** hybridization

(in situ; immunohistochem. and in situ mRNA hybridization techniques to determine distribution of ion channels in human brain: a study of neuronal **voltage-dependent calcium channels**)

L4 ANSWER 5 OF 7 EMBASE COPYRIGHT 2004 ELSEVIER INC. ALL RIGHTS RESERVED. on STN

ACCESSION NUMBER: 90151219 EMBASE

DOCUMENT NUMBER: 1990151219

TITLE: Primary structure of the γ subunit of the DHP-sensitive calcium channel from skeletal muscle.

AUTHOR: Jay S.D.; Ellis S.B.; McCue A.F.; Williams M.E.; Vedvick T.S.; Harpold M.M.; Campbell K.P.

CORPORATE SOURCE: Howard Hughes Medical Inst., Dept. of
Physiology/Biophysics, Univ. of Iowa College of Med., Iowa
City, IA 52242, United States
SOURCE: Science, (1990) 248/4954 (490-492).
ISSN: 0036-8075 CODEN: SCIEAS

COUNTRY: United States
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 002 Physiology
029 Clinical Biochemistry
030 Pharmacology

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Affinity-purified, polyclonal antibodies to the γ subunit of the dihydropyridine (DHP)-sensitive, **voltage-dependent calcium channel** have been used to isolate complementary DNAs to the rabbit skeletal muscle protein from an expression library. The deduced primary. . . domains and two N-linked glycosylation sites, consistent with biochemical analyses showing that the γ subunit is a glycosylated hydrophobic protein. **Nucleic acid** hybridization studies indicate that there is a 1200-nucleotide transcript in skeletal muscle but not in brain or heart. The γ . . .

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ACCESSION NUMBER: 88238710 EMBASE

DOCUMENT NUMBER: 1988238710

TITLE: Sequence and expression of mRNAs encoding the $\alpha 1$ and $\alpha 2$ subunits of a DHP-sensitive calcium channel.

AUTHOR: Ellis S.B.; Williams M.E.; Ways N.R.; Brenner R.; Sharp A.H.; Leung A.T.; Campbell K.P.; McKenna E.; Koch W.J.; Hui A.; Schwartz A.; Harpold M.M.

CORPORATE SOURCE: The Salk Institute Biotechnology/Industrial Associates, La Jolla, CA 92037, United States

SOURCE: Science, (1988) 241/4873 (1661-1664).

ISSN: 0036-8075 CODEN: SCIEAS

COUNTRY: United States

DOCUMENT TYPE: Journal

FILE SEGMENT: 002 Physiology
022 Human Genetics

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Complementary DNAs were isolated and used to deduce the primary structures of the $\alpha 1$ and $\alpha 2$ subunits of the dihydropyridine-sensitive, **voltage-dependent calcium channel** from rabbit skeletal muscle. The $\alpha 1$ subunit, which contains putative binding sites for calcium antagonists, is a hydrophobic protein with. . . other voltage-dependent ion channels. In contrast, the $\alpha 2$ subunit is a hydrophilic protein without homology to other known protein sequences. **Nucleic acid** hybridization studies suggest that the $\alpha 1$ and $\alpha 2$ subunit mRNAs are expressed differentially in a tissue-specific manner and that there. . .

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ACCESSION NUMBER: 89269008 EMBASE

DOCUMENT NUMBER: 1989269008

TITLE: Reperfusion injury.

AUTHOR: Royston D.

CORPORATE SOURCE: Division of Anaesthesia and Vascular Biology, Clinical Research Centre, Harrow HA1 3UJ, United Kingdom

SOURCE: Bailliere's Clinical Anaesthesiology, (1988) 2/3 (707-727).

ISSN: 0950-3501 CODEN: BCANE2

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal

FILE SEGMENT: 024 Anesthesiology
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

AB . . . neutrophils. Once produced these species can produce injury and permanent damage to a number of cell components such as lipids, **nucleic acids** and proteins to produce their toxic effects. Tissue derived superoxide generation can be prevented by the use of xanthine oxidase. . . there is considerable evidence that reperfusion injury to various organs can be reduced or prevented simply by the administration of **voltage dependent calcium channel** blocking agents. The ability to improve neurological outcome after stroke with the calcium channel antagonist nimodipine is an exciting development. . .